Vikash V

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EDUCATION

Government College of Engineering **Erode**

B.Tech Information Technology *Graduation Date: May 2027*

CIT Sandwich Polytechnic College **Coimbatore**

Diploma in Computer Engineering *Graduation Date: May 2024*

SKILLS

Skills: ReactJS, HTML, CSS, JavaScript, Tailwind, Python, Java, C, MySQL, Firebase, MongoDB, Basic UI Designing, Linux

WORK EXPERIENCE

Nxtlogic Software Solutions **Coimbatore**

Full Stack Development Intern *Jan 2023 - Jan 2023*

- Designed and built a full-stack web application, integrating **ASP.NET and MySQL** to enhance user experience, achieving a **40% reduction in load times** compared to previous projects.
- Developed a **responsive landing page** for a company to show case their products and optimized for mobile and desktop views.
- Collaborated as a **team of five**, ensuring effective task distribution and supporting one another to **accelerate updates** and **maintain smooth progress.**

Litztech Pvt Ltd **Coimbatore**

MERN Stack Development Intern *Feb 2023 - Feb 2023*

- Led the integration of performance monitoring tools to identify and eliminate key bottlenecks, achieving smoother application flow and a **25% increase in response speed.**
- Collaborated in team to prioritize user-centric features, **reducing bug reports by 35%** post-deployment and increasing end-user satisfaction.
- Optimized database queries and API calls within the development cycle, significantly **enhancing backend efficiency** and contributing to reduced server load during peak hours.

SharpAbacus Learning Pvt Ltd **Bengaluru**

Full Stack Development Intern *Jul 2024 - Mar 2025*

- Developed and deployed a robust SaaS website utilizing SvelteJS, TailwindCSS, MongoDB, and Node.js, enhanced user engagement metrics by **30% within first quarter post-launch**.
- Implemented server-side rendering and lazy loading strategies, boosting **SEO performance by 50%** and **decreasing initial load times by 15%** across dynamic pages.
- Designed and implemented interactive features such as a drawing board and puzzles, resulting in an **80% increase in engagement among children users**.

PROJECT EXPERIENCE

Personal Projects

Deployable Search Engine

- Developed a deployable web search engine using Flask, designed for **scalability and modularity** across various environments.

- Integrated OpenSearch API with custom configurations, enabling **advanced search capabilities** and **enhanced result relevance.**
- Optimized query handling and backend performance, resulting in a **40% improvement in response speed** for over 50,000 daily users.

React Native Mobile App

- Built a **real-time mobile application** using React Native and Firebase, tailored for IoT-based temperature and humidity monitoring with **99.9% uptime reliability.**
- Achieved a **60% improvement in data response time** by optimizing real-time data syncing and implementing efficient state management.
- **Enhanced user decision-making by 75%**, enabling timely alerts and actionable insights based on environmental fluctuations.

Self-Driving vehicle

- Developed an **autonomous self-driving vehicle prototype** using behavioral cloning techniques, trained on simulated driving data for efficient driving like a human for any vehicle.
- **Achieved 92% driving accuracy in simulation and 87% real-world performance**, validating the model's robustness across both virtual and physical environments.
- Integrated Arduino-controlled hardware with a **40ms response time**, ensuring real-time control and smooth actuation in dynamic driving scenarios.

Web3 Freelancing platform

- Built a **decentralized freelancer-client platform** featuring seamless **MetaMask wallet integration** for secure, on-chain transactions.
- Implemented **smart contract** automation, ensuring **transparent agreements**, **milestone-based payments**, and reduced manual intervention.
- **Achieved 99% secure transaction success rate** while completely eliminating intermediary fees, boosting trust and cost-efficiency for both parties.

ACHIVEMENTS

National Level Young Scientist Award (2019)   **Coimabtore**

1st place

- Secured 1st place with cash award in the National Level Young Scientist Award in 2019, earning a free trip to ISRO for outstanding contributions by building a prototype of Nano Satellite with 20% of the cost.

Code Debugging Excellence (Infinitm 2023)   **Coimbatore**

1st place

- Awarded 1st prize in code debugging competition held at CIT Sandwich Polytechnic College during Infinitm 2023.
- Solved complex C programming code within the quater time of the alloted.

Project Expo (Infinitm 2023)   **Coimbatore**

1st place

- Secured 1st place in the Project Expo held at CIT Sandwich Polytechnic College during Infinitm 2023 as intercollege competition, showcasing in project development and presentation.
- Built a prototype of a Hybrid multi - stage Rocket with 30% incrased durablity and 49% increase in weight reduction.

Paper Presentation   **Coimbatore**

1st place

- Secured 1st place in the Project Expo held at CIT Sandwich Polytechnic College during Department of Computer Science Event.
- Presented in the topic of AI Applications. Achived 90% of the students engagement and handed montivation session at the end of the event.

RESEARCH CONTRIBUTION

Comprehensive Exploration and Future Prospects of RFID

- MAT Journals
- Citation: Vikash V. and Yatika Balasubramani, "A Comprehensive Exploration and Future Prospects on RFID Technologies", JoRFMCT, pp. 1–9, May 2024.